

LAUNCH VEHICLES



Atlas V

Primary function: Evolved expendable launch vehicle designed to improve space launch operability and standardization. **Dimensions:** The Common Core Booster is 12.5 ft. in diameter by 106.6 ft. long and uses 627,105 lbs. of liquid oxygen and RP-1 rocket fuel propellants. The Centaur Stage is stretched 5.5 feet and powered by either one or two Pratt & Whitney RL10A-4-2 engines. **Payload capability:** 45,000 pounds into low earth orbit; 19,000 pounds into geotransfer orbit.



Delta II

Primary function: Space lift vehicle. **Length:** 125 ft. 9 in. **Diameter:** Fairing 9.5 ft.; Core 8 ft. **Payload:** Department of Defense Global Positioning System; civil and commercial satellites into low earth and near earth.



Delta IV

Primary function: Evolved expendable launch vehicle designed for optimum performance for a wide range of flight profiles. **Dimensions:** Common booster core length 205 ft., diameter 16 ft. 8 in. **Payload capability:** Up to 48,260 pounds into low earth orbit; 28,120 pounds into geotransfer orbit; 13,840 lbs. into geostationary orbit.